In The Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A porous substrate, comprising:

a substrate and;

a plurality of porous layers thereon on the substrate,

wherein [[[the]]] <u>an</u> average opening diameter of pores in a <u>first</u> porous layer of said plurality of porous layers positioned in an outermost surface is smaller than [[the]] <u>an</u> average diameter of pores in a <u>second</u> porous layer of said plurality of porous layers positioned on a substrate side relative to said <u>first</u> porous layer <u>positioned in said</u> outermost surface.

2. (Currently Amended) A porous substrate, comprising:

a substrate; and

a plurality of porous layers thereon on the substrate,

wherein [[the]] <u>an</u> average opening diameter of pores in a <u>first</u> porous layer of said plurality of porous layers positioned in an outermost surface is smaller than [[the]] <u>an</u> average diameter of pores in a <u>second</u> porous layer of said plurality of porous layers positioned on a substrate side relative to said <u>first</u> porous layer <u>positioned in said</u> outermost surface; and [[the]] <u>a</u> volume porosity of said plurality of porous layers is 10%-90%.

3. (Currently Amended) A porous substrate, comprising:

a substrate; and

two porous layers thereon on the substrate,

wherein [[the]] <u>an</u> average opening diameter of pores in a first porous layer of said two porous layers positioned in an outermost surface is smaller than [[the]] <u>an</u> average diameter of pores in a second porous layer positioned on a substrate side relative to said first porous layer; and more than 50% of said pores in said first porous layer penetrate from [[the]] <u>a</u> surface of said first porous layer to[[the]] <u>an</u> interface between said first and second porous layer.

4. (Currently Amended) A porous substrate, comprising:

a substrate; and

two porous layers thereon on the substrate,

wherein [[the]] <u>an</u> average opening diameter of pores in a first porous layer of said two porous layers positioned in an outermost surface is smaller than [[the]] <u>an</u> average diameter of pores in a second porous layer positioned on a substrate side relative to said first porous layer; more than 50% of said pores in said first porous layer penetrate from [[the]] <u>a</u> surface of said first porous layer to [[the]] <u>an</u> interface between said first and second porous layer; and [[the]] <u>a</u> volume porosity of said first and second porous layer is 10%-90%.

- 5. (Original) The porous substrate according to claim 3, wherein said first porous layer comprises a metal material.
- 6. (Original) The porous substrate according to claim 3, wherein said first porous layer comprises a metal oxide, a metal nitride, or a metal carbide.
- 7. (Original) The porous substrate according to claim 3, wherein said second porous layer comprises a semiconductor material.

- 8. (Original) The porous substrate according to claim 3, wherein said second porous layer comprises a group III nitride series compound semiconductor material.
- (Original) The porous substrate according to claim 3, wherein said first porous layer comprises TiN or Pt, and said second porous layer comprises GaN.
- 10. (Original) The porous substrate according to claim 3, wherein said average opening diameter of said porosity in said first porous layer is not more than 1 μm.
- 11. (Original) The porous substrate according to claim 3, wherein the film thickness of said first porous layer is not more than 1 μm.
- 12. (Withdrawn) A fabrication method for a porous substrate, comprising growing two or more different material layers on a substrate, heating said each layer, and thereby forming two or more porous layers with pores therein.
- 13. (Currently Amended) A GaN series semiconductor layered substrate, comprising a GaN series semiconductor layer grown on [[a]] the porous substrate defined in claim 1.
- 14. (Withdrawn) A fabrication method for a GaN series semiconductor layered substrate, comprising growing two or more different material layers on a substrate, heating said each layer, thereby forming a porous substrate with two or more porous layers having pores therein, and growing a GaN semiconductor layer on that porous substrate.
- 15. (Currently Amended) A GaN series semiconductor layered substrate, comprising a GaN series semiconductor layer grown on [[a] the porous substrate defined in claim 2.
- 16. (Withdrawn-Currently Amended) A GaN series semiconductor layered substrate, comprising a GaN series semiconductor layer grown on [[a]] the porous substrate defined in claim 3.

- 17. (Currently Amended) A GaN series semiconductor layered substrate, comprising a GaN series semiconductor layer grown on [[a]] the porous substrate defined in claim 4.
- 18. (New) The porous substrate according to claim 1, wherein a material of said first porous layer is different from a material of said second porous layer.
- 19. (New) The porous substrate according to claim 18, wherein said first porous layer comprises a metal material, a metal oxide, a metal nitride, a metal carbide, or combinations thereof, and said second porous layer comprises a semiconductor material.